Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5851808".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/03 08:48
S1	3696222	create$ or creating or generate$ or generating or recreat$ or regenerat$ or reconstruct$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:19
S2	253086	promoter$ or promotor$ or regulatory or transcriptional adj (element or elements or sequence or sequences or segment$ or region$ or start$) or enhancer$ or binding adj site$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:23
S3	25561	S1 with S2	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:23
S4	3487184	first with second	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:24
S5	523	S3 with S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:25
S6	284779	recombination or recombinase$ or restriction or ligat$ or ligase$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 11:25
S7	95	S5 with S6	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 12:33
S8	2	recombinase$ with hybrid adj2 promoter$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 12:01
S9	2	"6828093".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/03 08:48
S10	3466527	element$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 12:33

S11	2	S9 and S10	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 14:34
S12	9462	schwartz.in.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 14:35
S13	2312	eastman.in.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 14:35
S14	14	S12 and S13	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 14:37
S15	11544	tac with promoter	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/08/02 14:37

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Rapid construction of recombinant DNA by the univector plasmid-fusion system.

Liu Q, Li MZ, Liu D, Elledge SJ.

Department of Biochemistry and Molecular Biology, Howard Hughes Medical Institute, Baylor College of Medicine, Houston, Texas 77030, USA.

PMID: 11075365 [PubMed - indexed for MEDLINE]

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The univector plasmid-fusion system, a method for rapid construction of recombinant DNA without restriction enzymes.

Liu Q, Li MZ, Leibham D, Cortez D, Elledge SJ.

Howard Hughes Medical Institute Verna and Marrs McLean Department of Biochemistry Baylor College of Medicine One Baylor Plaza Houston Texas 77030 USA.

Background:. Modern biological research is highly dependent upon recombinant DNA technology. Conventional cloning methods are time-consuming and lack uniformity. Thus, biological research is in great need of new techniques to rapidly, systematically and uniformly manipulate the large sets of genes currently available from genome projects. Results:. We describe a series of new cloning methods that facilitate the rapid and systematic construction of recombinant DNA molecules. The central cloning method is named the univector plasmid-fusion system (UPS). The UPS uses Cre-lox site-specific recombination to catalyze plasmid fusion between the univector - a plasmid containing the gene of interest - and host vectors containing regulatory information. Fusion events are genetically selected and place the gene under the control of new regulatory elements. A second UPS-related method allows for the precise transfer of coding sequences only from the univector into a host vector. The UPS eliminates the need for restriction enzymes, DNA ligases and many in vitro manipulations required for subcloning, and allows for the rapid construction of multiple constructs for expression in multiple organisms. We demonstrate that UPS can also be used to transfer whole libraries into new vectors. Additional adaptations are described, including directional PCR cloning and the generation of 3' end gene fusions using homologous recombination in Escherichia coli. Conclusions:. Together, these recombination-based cloning methods constitute a new comprehensive approach for the rapid and efficient generation of recombinant DNA that can be used for parallel processing of large gene sets, a feature that will facilitate future genomic analysis.

PMID: 9843682 [PubMed - indexed for MEDLINE]

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